

Transformers Trigger, SCR Isolation



FEATURES

- Designed for low-cost trigger source isolation in SCR power control circuits.
- Small physical size and low profile provide packaging advantages.
- Designed to transfer high amplitude or long duration pulses without saturation.
- Industrial and commercial applications include motor speed controls, lighting controls and heater controls.
- Interchangeable. Designed for circuit board mounting using same mounting dimensions as 11Z and PT-20 models.

STANDARD ELECTRICAL SPECIFICATIONS

| DASH NUMBER | TURNS RATIO | PRIMARY INDUCTANCE MIN. (μH) | LEAKAGE INDUCTANCE MAX. (μH) | INTERWINDING CAPACITY MAX. (pF) | DCR MAX. (Ohms) | UNIPOLAR ET (V-μSEC) |
|-------------|-------------|------------------------------|------------------------------|---------------------------------|-----------------|----------------------|
| 101 | 1:1 ± 10% | 200 | 3 | 800 | 1.5-1.5 | 570 |
| 102 | 1:1 ± 10% | 500 | 6 | 1500 | 4.5-4.5 | 912 |
| 103 | 1:1 ± 10% | 1000 | 12 | 2000 | 8.0-8.0 | 1283 |
| 104 | 1:1 ± 10% | 2000 | 13 | 2800 | 12-12 | 1853 |
| 105 | 1:1 ± 10% | 5000 | 15 | 3500 | 18-18 | 2850 |
| 106 | 2:1 ± 10% | 500 | 6 | 1000 | 4-2 | 912 |
| 107 | 2:1 ± 10% | 1000 | 10 | 1300 | 10-2 | 1288 |
| 108 | 2:1 ± 10% | 2000 | 12 | 1800 | 10-5 | 1881 |
| 109 | 2:1 ± 10% | 5000 | 15 | 2400 | 18-10 | 2565 |
| 110 | 5:1 ± 10% | 5000 | 1500 | 400 | 19-3 | 2850 |

ELECTRICAL SPECIFICATIONS

Primary Inductance Values: From 200μH to 5000μH.

Turns Ratio: 1:1, 2:1 and 5:1.

Temperature Range: - 55°C to + 105°C.

Dielectric Test @ 60 Hz: 1600 V RMS. (Windings to core.)

AC Line Voltage @ 60 Hz: 240 V RMS maximum in test circuits shown.

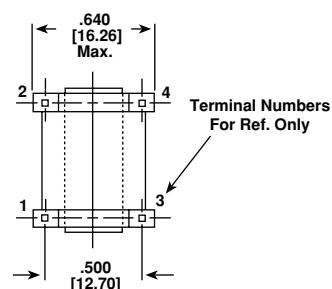
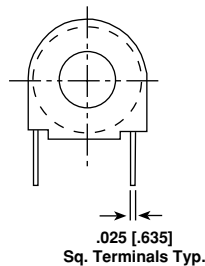
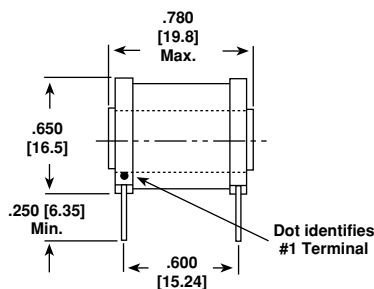
MATERIAL SPECIFICATIONS

Bobbin: Glass-filled nylon.

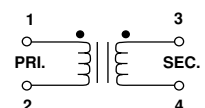
Terminals: .025" [.635] square tinned copper.

Material Rating: + 105°C Class A.

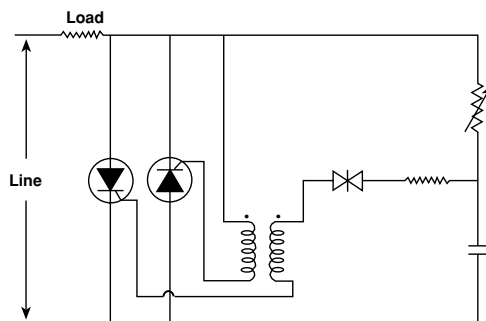
DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]



Schematic



CIRCUIT DIAGRAM



Transformer Coupled Breakdown Diode Triggering Circuit

PART MARKING

- Vishay Dale
- Model
- Dash number

ORDERING INFORMATION

PT 50 101
TYPE MODEL DASH NUMBER

Contact factory for special designs not listed.